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NOTICE OF ALLOWANCE AND FEE(S) DUE

34610 7590 04/06/2009

KED & ASSOCIATES, LLP P.O. Box 221200 Chantilly, VA 20153-1200 EXAMINER GUHARAY, KARABI

ART UNIT PAPER NUMBER
2889
DATE MAILED: 04/06/2009

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNIY DOCKET NO.
 CONFIRMATION NO.

 10/830,068
 04/23/2004
 Young Joon Ahn
 YHK-0135
 7680

TITLE OF INVENTION: PLASMA DISPLAY PANEL HAVING BUFFER LAYER BETWEEN SEALING LAYER AND SUBSTRATE AND METHOD OF FABRICATING THE SAME

			I			
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/06/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further e indicated unless correcte maintenance fee notificat	correspondence including d below or directed off	or tran	smitting the ISSU Patent, advance or in Block 1, by (a		of m rresp	aintenance fees w ondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspo rate "FE	ondence address as E ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block I for any change of address)				N Fo	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
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KED & ASSOC P.O. Box 221200 Chantilly, VA 20)			I Si ac tr	here tate: ddre	abor cortify that thi	e Goods	s) Transmittal is being ficient postage for firs ISSUE FEE address I) 273-2885, on the d	danorit	ed with the United tail in an envelope or being facsimile ated below.
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										(Signature)
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APPLICATION NO.	NO. FILING DATE		FIRST NAMED INVEN		OR	R ATTORNEY DOCKET NO.		RNEY DOCKET NO.	CONFIRMATION NO.	
10/830,068	04/23/2004			Young Joon Ahn				YHK-0135	7680	
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APPLN, TYPE	SMALL ENTITY	IS	SUE FEE DUE	PUBLICATION FEE DU	E	PREV. PAID ISSUE FEE TOTAL FEE(S) DU		TOTAL FEE(S) DUE		DATE DUE
nonprovisional	NO		\$1510	\$300		\$0		\$1810		07/06/2009
EXAM	INER		ART UNIT	CLASS-SUBCLASS	\neg					
GUHARAY	, KARABI		2889	313-586000						
1. Change of correspondence address or indication of "Fee Address" (3' CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTOSB/122) attached. Tee Address' Indication for "Fee Address" Indication form PTOSB/47; Rev 03-02 or more recent) attached. Use of a Custom Number is required.			Correspondence	(I) the names of up or agents OR, alterna (2) the name of a sin registered attorney of	of a single firm (having as a member a riney or agent) and the names of up to thent attorneys or agents. If no name is					
(A) NAME OF ASSIC	ess an assignee is ident n in 37 CFR 3.11. Comp BNEE	ified b detion	elow, no assignee of this form is NO	data will appear on the T a substitute for filing a (B) RESIDENCE: (CI	pai an a	tent. If an assigne ssignment. and STATE OR C	OUNT	RY)		
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4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			ed)	A. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
	SMALL ENTITY state	ıs. See	37 CFR 1.27.	☐ b. Applicant is no le						
NOTE: The Issue Fee and interest as shown by the r	I Publication Fee (if req ecords of the United Sta	uired) i tes Pat	will not be accepted ent and Trademark	d from anyone other that Office.	ın th	e applicant; a regi	stered a	ttorney or agent; or th	e assign	e or other party in
Authorized Signature				Date						
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
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KED & ASSOC	IATES, LLP	GUHARAY, KARABI			
P.O. Box 221200		ART UNIT	PAPER NUMBER		
Chantilly, VA 20153-1200			2889		

DATE MAILED: 04/06/2009

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)
10/830,068	AHN, YOUNG JOON
Examiner	Art Unit
Karabi Guharay	2889

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- 1. This communication is responsive to Amendment, filed on 1/7/09.
- The allowed claim(s) is/are 1,3,7,9,11-13,26-30,39 and 44-52.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a)

 All b)

 Some* c)

 None of the:
 - 1. A Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDOMMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) I hereto or 2) to Paper No./Mail Date ____
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date _____
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. Other _____.

Art Unit: 2889

Response to Amendment

Amendment, filed on 1/7/2009 has been considered and entered.

Claims 1, 26-27 are amended, claims 40-41 are canceled.

New claims 46-50 are added.

Amendments of specification overcome the objection to the disclosure.

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

On page 11, line 2, "118" has been deleted.

Allowable Subject Matter

Claims 1, 3, 7, 9, 11-13, 26-30, 39, 44-52 are allowed over the prior art of record.

Examiner's Reasons for Allowance

The following is an examiner's statement of reason for allowance:

Regarding claim 1, the prior art of record neither shows nor suggests a plasma display panel comprising all the limitations set forth in claim 1, particularly comprising a scaling layer located between the first and second substrate, the scaling layer extending in the second direction, the scaling layer has a thermal expansion coefficient of approximately $65 \times 10^{-7} \,^{\circ} \, 80 \times 10^{-7} \,^{\circ} \, C$; and at least one of buffer or dielectric layer has the following composition: PbO at a ratio of 45% to

Application/Control Number: 10/830,068

Art Unit: 2889

55%, B_20_3 at a ratio of 10% to 20% and SiO_2 at a ratio of 15%-25%; along with other cited limitations.

Regarding claim 26, the prior art of record neither shows nor suggests a plasma display panel comprising all the limitations set forth in claim 1, particularly comprising a scaling layer located between the first and second substrate, the scaling layer extending in the second direction, the scaling layer has a thermal expansion coefficient of approximately $65 \times 10^{-7} \times 80 \times 10^{-7} \times 10^{-7}$ and at least one of buffer or dielectric layer has a thermal expansion coefficient of approximately $72 \times 10^{-7} \times 85 \times 10^{-7}$ C, and thermal expansion coefficient of the at least one of the buffer layer or dielectric layer is different from the thermal expansion coefficient of the scaling layer, along with other cited limitations.

Claims 3, 7, 9, 11-13, 27-30, 39, 44-52 are allowed being dependent on allowed base claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee.

Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karabi Guharay whose telephone number is 571-272-2452. The examiner can normally be reached on Monday-Friday 9:00 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minh-Toan Ton can be reached on 571-272-2303. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2889

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866–217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800–786-9199 (IN USA OR CANADA) or 571-272-1000.

/Karabi Guharay/ Primary Examiner, Art Unit 2889